



SEQUENCE LISTING

5 GENERAL INFORMATION:

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(120) TITLE OF THE INVENTION:

(130) FILE REFERENCE:
15 (A) Medium type: Diskette
(B) Computer: IBM compatible
(C) Operating system: Windows 98
(D) Software: Word 6.0

20 (150) Earlier patent application:
(A) Application number: NO 19992786
(B) Filing date: 08-JUN-1999

25 (160) NUMBER OF SEQUENCE ID NOS: 2

(210) INFORMATION FOR SEQ ID NO: 1

(i) Sequence characteristics:

(A) Length: .. amino acid residues
 (B) Type: amino acid
 (D) Topology: single

(xi) Sequence description: SEQ ID NO: 1

10	Glu Phe Lys Phe	Leu Pro Pro Pro Gly Tyr	
	1	5	10
	Ala Pro Cys His	Glu Ala Val Leu Pro Arg	
		15	20
	Glu Arg Leu Arg	Leu Glu Pro Ile Lys Glu	
15		25	30
	Tyr Arg Arg Glu	Gly Pro Arg Gly Pro His	
		35	40
	Leu Val Gly Pro	Ser Arg Cys Leu Ser His	
		45	50
20	Thr Asp Phe Val	Pro Cys Pro Val Asp Thr	
		55	60
	Val Gln Ile Val	Leu Pro Pro His Leu Glu	
		65	70
	Arg Ile Arg Glu	Lys Leu Ala Glu Asn Ile	
25		75	80
	His Glu Leu Trp	Ala Leu Thr Arg Ile Glu	
		85	90
	Gln Gly Trp Thr	Tyr Gly Pro Val Arg Asp	
		95	100
30	Asp Asn Lys Arg	Leu His Pro Cys Leu Val	
		105	110
	Asn Phe His Ser	Leu Pro Glu Pro Glu Arg	
		115	120
	Asn Tyr Asn Leu	Gln Met Ser Gly Glu Thr	
35		125	130
	Leu Lys Thr Leu	Leu Ala Leu Gly Cys His	
		135	140
	Val Gly Met Ala	Asp Glu Lys Ala Glu Asp	
		145	150
40	Asn Leu Lys Lys	Thr Lys Leu Pro Lys Thr	
		155	160
	Tyr Met Met Ser	Asn Gly Tyr Lys Pro Ala	
		165	170
	Pro Leu Asp Leu	Ser His Val Arg Leu Thr	
45		175	180
	Pro Ala Gln Thr	Thr Leu Val Asp Arg Leu	
		185	190
	Ala Glu Asn Gly	His Asn Val Trp Ala Arg	
		195	200
50	Asp Arg Val Ala	Gln Gly Trp Ser Tyr Ser	

				205					210	
	Ala	Val	Gln	Asp	Ile	Pro	Ala	Arg	Arg	Asn
				215						220
	Pro	Arg	Leu	Val	Pro	Tyr	Arg	Leu	Leu	Asp
5				225						230
	Glu	Ala	Thr	Lys	Arg	Ser	Asn	Arg	Asp	Ser
				235						240
	Leu	Cys	Gln	Ala	Val	Arg	Thr	Leu	Leu	Gly
				245						250
10	Tyr	Gly	Tyr	Asn	Ile	Glu	Pro	Pro	Asp	Gln
				255						260
	Glu	Pro	Ser	Gln	Val	Glu	Asn	Gln	Ser	Arg
				265						270
	Trp	Asp	Arg	Val	Arg	Ile	Phe	Arg	Ala	Glu
15				275						280
	Lys	Ser	Tyr	Thr	Val	Gln	Ser	Gly	Arg	Trp
				285						290
	Tyr	Phe	Glu	Phe	Glu	Ala	Val	Thr	Thr	Gly
				295						300
20	Glu	Met	Arg	Val	Gly	Trp	Ala	Arg	Pro	Glu
				305						310
	Leu	Arg	Pro	Asp	Val	Glu	Leu	Gly	Ala	Asp
				315						320
	Glu	Leu	Ala	Tyr	Val	Phe	Asn	Gly	His	Arg
25				325						330
	Gly	Gln	Arg	Trp	His	Leu	Gly	Ser	Glu	Pro
				335						340
	Phe	Gly	Arg	Pro	Trp	Gln	Ser	Gly	Asp	Val
				345						350
30	Val	Gly	Cys	Met	Ile	Asp	Leu	Thr	Glu	Asn
				355						360
	Thr	Ile	Ile	Phe	Thr	Leu	Asn	Gly	Glu	Val
				365						370
	Leu	Met	Ser	Asp						
35				374						

(210) INFORMATION FOR SEQ ID NO: 2

(i) Sequence characteristics:

(A) Length: .. amino acid residues
 (B) Type: amino acid
 (D) Topology: single

(xi) Sequence description: SEQ ID NO: 2

10	Arg Gly Arg Ser Leu Thr Lys Ala Gln Arg	1	5	10
	Asp Val Ile Glu Asp Cys Leu Met Ala Leu	15	20	
	Cys Arg Tyr Ile Arg Pro Ser Met Leu Gln	25	30	
15	His Leu Leu Arg Arg Leu Val Phe Asp Val	35	40	
	Pro Ile Leu Asn Glu Phe Ala Lys Met Pro	45	50	
20	Leu Lys Leu Leu Thr Asn His Tyr Glu Arg	55	60	
	Cys Trp Lys Tyr Tyr Cys Leu Pro Thr Gly	65	70	
	Trp Ala Asn Phe Gly Val Thr Ser Glu Glu	75	80	
25	Glu Leu His Leu Thr Arg Lys Leu Phe Trp	85	90	
	Gly Ile Phe Asp Ser Leu Ala His Lys Lys	95	100	
30	Tyr Asp Gln Glu Leu Tyr Arg Met Ala Met	105	110	
	Pro Cys Leu Cys Ala Ile Ala Gly Ala Leu	115	120	
	Pro Pro Asp Tyr Val Asp Ala Ser Tyr Ser	125	130	
35	Ser Lys Ala Glu Lys Lys Ala Thr Val Asp	135	140	
	Ala Glu Gly Asn Phe Asp Pro Arg Pro Val	145	150	
40	Glu Thr Leu Asn Val Ile Ile Pro Glu Lys	155	160	
	Leu Asp Ser Phe Ile Asn Lys Phe Ala Glu	165	170	
	Tyr Thr His Glu Lys Trp Ala Phe Asp Lys	175	180	
45	Ile Gln Asn Asn Trp Ser Tyr Gly Glu Asn	185	190	
	Val Asp Glu Glu Leu Lys Thr His Pro Met	195	200	
50	Leu Arg Pro Tyr Lys Thr Phe Ser Glu Lys			

		205		210
	Asp Lys Glu Ile	Tyr Arg Trp Pro Ile	Lys	
		215		220
	Glu Ser Leu Lys	Ala Met Ile Ala Trp	Glu	
5		225		230
	Trp Thr Ile Glu	Lys Ala Arg Glu Gly	Glu	
		235		240
	Glu Glu Arg Thr	Glu Lys Lys Lys Thr	Arg	
		245		250
10	Lys Ile Ser Gln	Thr Ala Gln Thr Tyr	Asp	
		255		260
	Pro Arg Glu Gly	Tyr Asn Pro Gln Pro	Pro	
		265		270
	Asp Leu Ser Gly	Val Thr Leu Ser Arg	Glu	
15		275		280
	Leu Gln Ala Met	Ala Glu Gln Leu Ala	Glu	
		285		290
	Asn Tyr His Asn	Thr Trp Gly Arg Lys	Lys	
		295		300
20	Lys Gln Glu Leu	Glu Ala Lys Gly Gly	Gly	
		305		310
	Thr His Pro Leu	Leu Val Pro Tyr Asp	Thr	
		315		320
	Leu Thr Ala Lys	Glu Lys Ala Arg Asp	Arg	
25		325		330
	Glu Lys Ala Gln	Glu Leu Leu Lys Phe	Leu	
		335		340
	Gln Met Asn Gly	Tyr Ala Val Thr		
		345		348
30				